

UNIVERSITY OF ILLINOIS
DEPARTMENT OF BACTERIOLOGY
362 NOYES LABORATORY OF CHEMISTRY
URBANA

January 8, 1953

Dr. J. Lederberg
University of Wisconsin
College of Agriculture
Department of Genetics
Madison 6, Wisconsin

Dear Josh,

Yes, we are going to Lafayette on the 25th and 26th. If you wish you may stop there rather than in Urbana. Coming from the South, Lafayette is conveniently reached from Route 43, Indiana.

Concerning the x-rays, I feel the same way as you do, that they are likely to give very little informational value. The indirect effect can be partly imitated with peroxide but not completely. There is no reason why one could not do it with the x-ray machine since the sensitivity is much greater. All you have to do is to suspend your phage in buffer with less than one percent broth. I am sending you two reprints of Watson's II since all reprints from this lab have not been sent away for one year but we hope to do it soon.

Concerning the lysogenization experiments the virulent mutant appears to be just what you needed. It is especially interesting that you should get negligible amount of killing. It may pay to find out which physiological conditions are responsible for the proportion of cells that get killed. I don't remember whether Joe told you that he found almost no killing of *Shigella* by P2 when everything was done at 20°.

I showed your letter to Joe and if you come to Purdue we can all talk about these things together.

Best regards.

Sincerely yours,



S. E. Luria